OOD Group C

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# User Requirement Specification

Description of the application:

The application will be able to store information about dogs and cats which are currently taken care of in the animal shelter. Each animal shelter will also have its own information to store and would be able to alter the shelter details whenever needed, if animal has extra information to store.

Every animal will have their own unique RFID chip which will be used to check in a new animal or retrieve data from an existing animal in the shelter. Cats and dogs will be able to have different data that can be stored.

Walks are needed for dogs, so the application will be able to register and store how long the dog has been for a walk which will also be used to calculate the fee when the previous owner comes for a claim.

Animals can only be adopted if the duration exceeded 20 days, and when adopted the previous owner in the application will be replaced by the new owner. Other than that the owner can come within the 20 days’ period or after that if the animal is not taken for adoptions. This is to insure that the previous owner has a higher probability of retrieving the lost animal as it’s a higher priority.

Application should also store information about the owner and register in the application to be able to link to the animals he owns. In addition to that, the application would also be able to list the animals the owner has.

If previous owner comes to claim the pet, he has to pay the fees by providing bank details to establish the payment before taking the pet and pay the additional fees. Same procedure applies to new adopter except different fees will apply.

The application will also be able to search through data to find the animal requested by the provided information in the search bar.

Viewing a list of adoptable and non-adoptable pets is also a feature in the application to get an overview of available animals.

# USE CASES

**Use case: Check shelter details**

Actor: User

Pre-condition: Shelter already exists

Main Success Scenario:

1. User requests shelter details
2. System returns shelter details

**Use case: Change shelter details**

Actor: User

Pre-condition: Shelter already exists

Main Success Scenario:

1. User requests form to change shelter details
2. System returns form
3. User fills out form
4. User submits form
5. System changes details

Extensions:

4a: Form is not correctly filled in

1. System displays error message
2. Go to step 3

**Use case: Add animal**

Actor: User

Trigger: User wants to add an animal

Main Success Scenario:

1. User scans animal for rfid tag
2. System accepts rfid tag and adds animal

Extensions:

1a: Animal does not have an rfid tag

1. User implants an rfid tag
2. Go to step 2.

**Use case: Check animal details**

Actor: User

Trigger: User wants to check animal details

Main Success Scenario:

1. User scans animal’s rfid tag
2. System returns animal details

Extensions:

1a: Animal does not have an rfid tag

1. Go to use case: Add animal; step 1

**Use case: Register walking of dog**

Actor: User

Main Success Scenario:

1. User clicks on register walking button
2. System prompts for scanning of the RFID
3. User scans the RFID
4. System displays dog information
5. User registers walking and confirms
6. Walking updated for the selected dog

Extensions:

3a: Dog is not in the system

1. System gives message about dog not in the system
2. System cancels the procedure

**Use case: Adding extra information for cat**

Actor: User

Main Success Scenario:

1. User clicks on add cat extra info button
2. System prompts for scanning of the RFID
3. User scans the RFID
4. System displays cat information
5. User enters extra information for the cat and confirms
6. System adds cat extra information

Extensions:

3a: Cat is not in the system

1. System gives message about cat not in the system
2. Go to use case Add Animal step 1

**Use case: View cat extra information**

Actor: User

Main Success Scenario:

1. User clicks on view cat extra information button
2. System prompts for scanning of the RFID
3. User scans the RFID
4. System displays extra cat information

Extensions:

3a: Cat doesn’t have extra information:

1. Application displays message that cat doesn’t have extra information
2. End of use case

**Use case: Adopt Animal**

Actor: User

Trigger: User requests adoption of specific animal from adoptable animal list.

Main Success Scenario:

1. System returns list of owners registered in the system.
2. User selects which owner will be adopting the animal.
3. System displays how much the new owner must pay.
4. User confirms adoption.
5. System links animal and owner.
6. System stores animal as adopted.

Extensions:

1a: Owner that wants to adopt is not in the system.

1. Go to use case Register Owner
2. Go back to MSS trigger.

**Use Case: Claim Animal**

Actor: User

Trigger: User requests to claim specific animal from claimable animals list.

Main success scenario:

1. System displays registered owner of animal.
2. User confirms if claiming person is a registered owner.
3. System stores animal as claimed

Extensions:

1a: Displayed owner is not the person claiming the animal

1. User cancels claiming animal.

**Use case: List adoptable pets**

Actor: User

Trigger: User requests form to see adoptable pets

Main Success Scenario:

1. System searched for adoptable animals.
2. System displays list of adoptable animals.

**Use case: List claimable animals**

Actor: User

Trigger: User requests form to add non-adoptable pets

Main Success Scenario:

1. System searched for claimable animals.
2. System displays list of claimable animals.

**Use case: Register owner**

Actor: User

Pre-condition: Owner is not registered

Trigger: User requests registering of a new owner

Main Success Scenario:

1. System asks for owner details
2. User fills in the owner details
3. User confirms details.
4. System stores owner details.

Extensions:

4a: Owner is already in the system

1. System displays error message.

**Use case: List owner’s pets**

Actor: User

Trigger: User seeks all pets registered for a specific owner

Main Success Scenario:

1. System asks for owner’s last name
2. User enters owner last name
3. System shows all pets registered on that last name

Extensions:

2a: Owner not in the system

1. System displays error message.

**Use case: Assign an animal to an owner**

Actor: User

Pre-condition: animal must not be assigned to an owner, is not an adoption or claim.

Trigger: Animal must be registered to an owner

Main Success scenario:

1. User selects animal
2. User tells system to register animal with owner
3. System asks which owner is to be used
4. User selects owner
5. System stores link between animal and owner

**Use case: List animals currently in shelter**

Actor: User

Trigger: User requests list of animals in shelter

Main Success Scenario:

1. System checks each animals if they are in the shelter.
2. System returns list of animals which are in the shelter.

Extensions:

1a: Animals not in the system

1. System displays error message.

**Use case: List all registered animals**

Actor: User

Trigger: User requests list of all registered animals.

Main Success Scenario:

1. System returns list of every animal in the system.

Extensions:

1a: Animals not in the system

1. System displays error message.

# General rules decided to hold for the application

1. Limited to dogs and cats only
2. Claiming fees
3. Data is stored with .sh file format (serialization)
4. Every animal already has an RFID tag
5. Each animal is identified by an RFID tag
6. Animal shelters must have a name, an address, a telephone number and an e-mail address
7. Every animal should have a description
8. Animals’ owners’ first name, last name, address and phone number must be stored in the application if available
9. An animal can only be adopted after 20 days
10. Previous owner can only be replaced by new owner if his animal has been adopted by someone else